

**NONPROVISIONAL PATENT  
APPLICATION TRANSMITTAL RULE §1.53(b)  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**



**Customer Number 32294**

SQUIRE, SANDERS & DEMPSEY LLP  
14<sup>TH</sup> Floor  
8000 Towers Crescent Drive  
Tysons Corner, Virginia 22182-2700  
Telephone: 703-720-7800  
Fax: 703-720-7802

Docket No.: 58501.00047

Date: April 1, 2004

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

**MAILSTOP PATENT APPLICATION**

Sir:

Transmitted herewith for filing under 37 C.F.R. §1.53(b) is a nonprovisional patent application:

For (Title): BACTERIAL EFFECTS ON METAL ACCUMULATION BY PLANTS

By (Inventors): Jay Scott ANGLE (Ellicott City, Maryland, USA); Rufus L. CHANEY (Beltsville, Maryland, USA); Reda Abdelaziz ABOU-SHANAB (Hyattsville, Maryland, USA); Peter VAN BERKUM (Columbia, Maryland, USA)

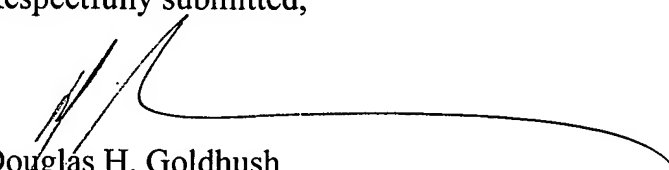
- ☒ 25 pages of Specification/Claims 1-72/Abstract are attached.
- ☐ Formal drawings (Figs. 1- ; sheets) are attached.
- ☐ A Declaration and Power of Attorney is attached.
- ☐ An assignment of the invention to \_\_\_\_\_ is attached, along with Form PTO-1595 and a check for \$40.00.
- ☐ This application is entitled to Small Entity Status.
- ☐ Priority of foreign application No. \_\_\_\_\_ filed \_\_\_\_\_ in \_\_\_\_\_ is claimed under 35 U.S.C. §119.
- ☐ Priority of U.S. Provisional Application(s) No. \_\_\_\_\_ filed \_\_\_\_\_ is claimed under 35 U.S.C. §119(e).
- ☐ A certified copy of the above corresponding foreign application is attached.

The filing fee is calculated below and includes claim status after entry of any Preliminary Amendment noted above:

			SMALL ENTITY		LARGE ENTITY		
FOR:	NO. FILED	NO. EXTRA	RATE	FEE	OR	RATE	FEE
BASIC FEE				\$ 385	OR		\$ 770
TOTAL CLAIMS	72 - 20	= 52	x 9 =		OR	x 18	\$936
INDEP CLAIMS	3 - 3	= 0	x 43 =		OR	x 86	
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS			+145 =		OR	+290	
			TOTAL		OR	TOTAL	\$1,706

☒ A check for the filing fee is not enclosed at this time.

Respectfully submitted,

  
Douglas H. Goldhush  
Registration No. 33,125

DHG/scc